Electronic Lab Reporting of Blood Lead Results -A Regional View

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State Lead Programs Survey

- ☐ Developed by Rick Leiker and J.A. Magnuson
- ☐ Distributed Fall 2001 to Region IX and X States -AK, AZ, CA, HI, OR, WA
- ☐ Purpose gather information about state EDI capacities and blood lead reporting Improvements

Why EDI?

- reporting ALL lead tests → huge test volume increase: EDI reduces data entry burden
- □ Demonstrated ability of ELR to increase reporting timeliness and completeness
- Merge incoming electronic datasets with existing data systems

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State Lead Programs Survey

Three parts of survey:

- I. State Blood Lead Information
- ☐ II. Lab Specific Information
- Glossary

I. State Blood Lead Information

- □ General reporting info:
 - □ Number of labs; lead tests/month; reportable lead level
- □ Electronic Data Interchange (EDI) info:
 - formats; coding

II. Lab Specific Information

For six major (high volume) labs in each state:

- Lowest BLL reported
- ■# Tests/year (Adult and Children)
- Main method of reporting

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DHS Office of Disease Persention & Epidemiology			

II. Lab Specific Information - Continued

Info on reported variables:

- ☐ Patient Name, Tel, Address, County, DOB, Sex, Race, Medicaid, SS#
- ☐ Provider Name, Tel, Address, County, ID#
- □ Occupation Type, Code, Employer Name, Address, Tel
- ☐ Test Info Lead Level, Spec Type, Draw Date, Lab Analysis Date

DHS

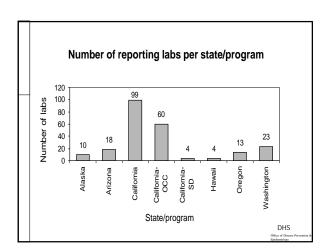
Glossary

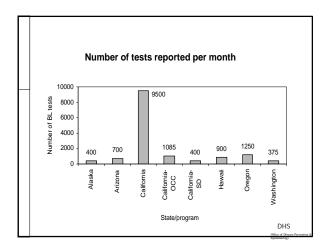
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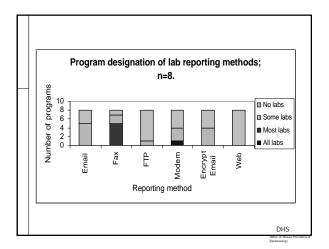
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7	Firest	A forwall may be a coffware application or a hardware device. It controls offware should be and a of of a computer or option. Forwalls half provide security boar lacking attempts when convected to the inter-	
3	Lagen Passes of	A farm of user suffernication is which the user must type in a password when happing only a restricted in or towning.	
A.	Description	Translation of data into a secret code in a chiefe concerts	
	OPE	Virtual Private Metwork, Accepted of creating the affect of an excrepted formal techniques computers. VPM rangities some tained of asset authorities and	
0	P.D.	File Transfer Protocol: A protocol use the transmit ries across the interest. An PTP server can be configured to contrat user access to files and entities password and hasticulate.	
	FPE	Federal Information Processing Standards Plusered Lading standards for Mandforders of states and countries.	
	Coesc	Legion I Observation I dan title "Names and Codes. Standard or ting system used to standly his test results and clinical at severations.	
T	100	International Classification of Dissiance: Ending system withly used in hospitals.	
18	Proprietary	An application show laped written in contracted by an organization for their sees unit out an oliside for off-the-shalf purchase.	

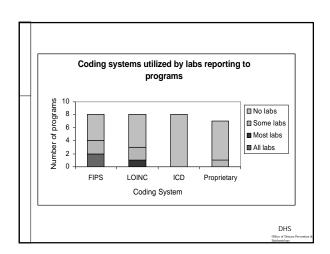
Sample Data

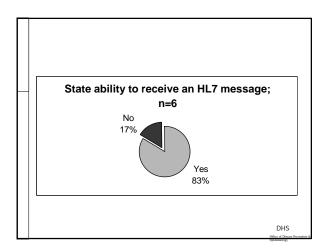
☐ The six states represented eight state lead programs

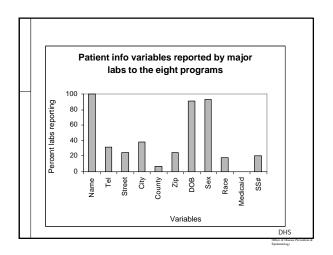


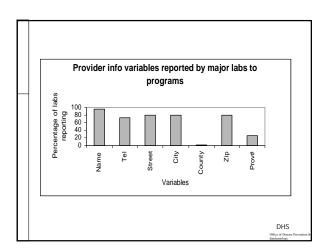


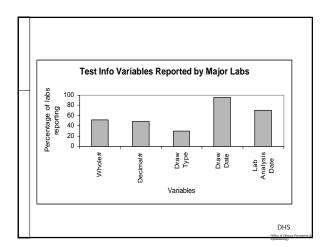


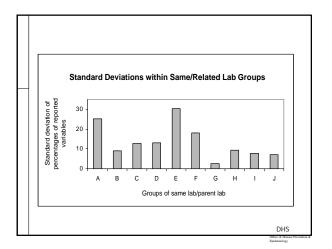












Conclusions

- Lead programs are in good position to pilot state ELR development for other reportable conditions

 - High volume of reports
 - Basic data capture present
- Benefits to lead programs: data entry, timeliness, completeness

DHS

Conclusions - Cont.

- Only basic info (such as patient name and DOB) reliably present - wide variation in reporting of other variables
 - Between states
 - Between labs within a state
 - Between labs within same parent lab group

Actions

- ☐ Committee formed –one/more representative from each state
- Investigations include:
 - For individual labs, what are other states receiving, and is this different from my state?
 - reporting in our region? For example, a coordinated approach to regional labs.
- Developed regional standard HL7 format

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